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Jameco Part Number 203326

EOS Corporation
AC/DC POWER SUPPLIES

VLT100 Series

Single and Quad Output 100W Universal Input AC/DC Power Supplies

Unless stated otherwise, specifications are typical and rated at full load, nominal input voltage, convection cooling and 25°C.

INPUT

AC Input	Universal	90 to 264V
Efficiency		85%
Input Frequency		47— 63 Hz
Input Current	Full load at low line	2.4Arms, max
Inrush Current	High line	35A, max

OUTPUT

Output Power		100W max
Voltage Set Point		See table
Hold-Up Time	115V/230V	10ms/18ms
Voltage Set Point Accuracy	V1 V2, V3, V4	±3% ±5%
Line Regulation	Low line to high line	0.3%
Load Regulation	Min to full load V1 V2, V3, V4	 ±3% ±5%
Transient Response	50% to Full Load Voltage deviation Recovery time	 10%, max <1ms
OVP	V1 only	6.2V ±0.4V
Overload Protection	Primary limited	135W, ±15W
Short Circuit Protection	Auto Recovery <6s	Short Term
Ripple and Noise		1%
Power Fail Signal[2]	TTL	1.5ms warning
Power Good Signal[2]	Delay after V1 high	100ms, min
Output Rise Time		<50ms

ENVIRONMENTAL

Operating Temperature		0 to 50°C
Storage Temperature		–40 to 85°C
Cooling	Convection	100W
Relative Humidity	Non condensing	95%, max
MTBF	MIL-HDBK-217F	>200,000 hrs

EMC AND SAFETY

CE Mark	Full compliance with the LVD
EMC	EN55022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1
Harmonic Correction	EN61000-3-2 Class A
Agency Approvals	VDE, UL, c-UL
Safety Standards	IEC950, EN60950, UL1950, CSA C22.2 No. 950 Class 1 SELV
Safety File numbers	VDE: 18934-3336 UL: E150565

Model Number	Output	Nom Vout	Set Point	Output Current [1]	Min. Load
VLT100-1001[2]	V1	12V	12V	7.5A	1.0A
VLT100-1002[2]	V1	15V	15V	6.9A	0.5A
VLT100-1003[2]	V1	24V	24V	4.2A	0.1A
VLT100-1004[2]	V1	48V	48V	2.1A	0.2A
VLT100-4000	V1	5V	5.1V	12.0A	3.0A
	V2	12V	12.25V	4.0A	0.1A
	V3	-5V	-5.0V	0.8A	0.0A
	V4	-12V	-12.0V	0.8A	0.0A
VLT100-4001	V1	5V	5.1V	12.0A	3.0A
	V2	24V	24.5V	2.0A	0.1A
	V3	12V	12.0V	0.8A	0.0A
	V4	-12V	-12.0V	0.8A	0.0A
VLT100-4002	V1	5V	5.1V	12.0A	3.0A
	V2	15V	16.0V	3.0A	0.1A
	V3	-5V	-4.8V	0.8A	0.0A
	V4	-15V	-15.5V	0.8A	0.0A
VLT100-4003	V1	5V	5.1V	12.0A	3.0A
	V2	12V	12.0V	4.0A	0.1A
	V3	24V	24.5V	0.8A	0.0A
	V4	-12V	-12.0V	0.8A	0.0

[1]Maximum current per output channel. Do not exceed total output power rating
[2]Power fail and power good signal on quad output models only

MECHANICAL

AC Input Connector J1	Molex 3 position, 0.156 center header 26-60-4030 or equivalent
Ground Connector	Spade connector 0.25
DC Output Connector J2	Molex 12 position, 0.156 center header 26-60-4120 or equivalent
Output Connector J3	Molex 2 position, 0.100 center header 22-23-2021 or equivalent
Size	3x5x1.07 (76.2x126.9x27.2mm)
Weight	9oz (250g)

INPUT CONNECTOR J1

Pin 1	AC Neutral
Pin 2	AC Line
Input Spade Connector	
GND	AC Ground

OUTPUT CONNECTOR J3

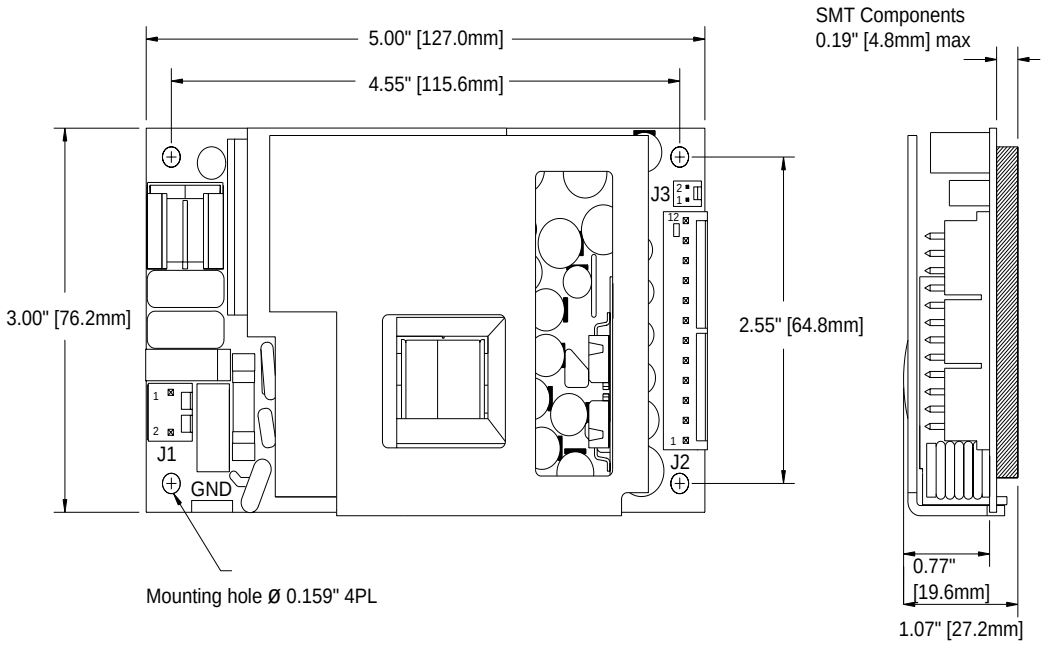
Pin 1	Common
Pin 2	Power Fail/Good

OUTPUT CONNECTOR J2

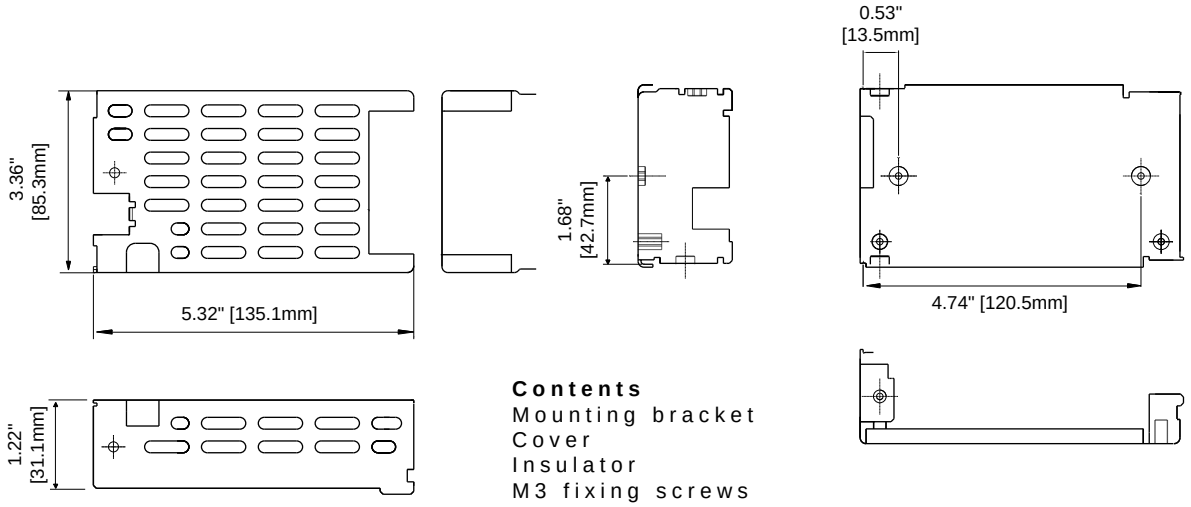
	Single Output	Quad Output
Pins 1,2,3,4	V1	V1
Pins 5,6,7,8	DC Return	DC Return
Pins 9,10	NC	V2
Pin 11	NC	V3
Pin 12	NC	V4

EOS Corporation
MECHANICAL SPECIFICATION

Dimensions

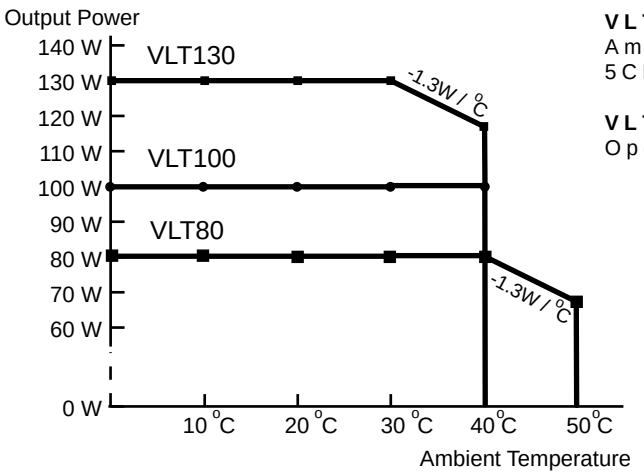


Cover Kit
p/n VLT80CK



Contents
Mounting bracket
Cover
Insulator
M3 fixing screws

VLT80CK Derating Guidelines



VLT80/MVLT80:
Ambient >40 °C, derate by 1.3W/°C to 50 °C.
5CFM fan recommended to circulate air.

VLT100:
Operating ambient temperature range 0 °C to 40 °C.